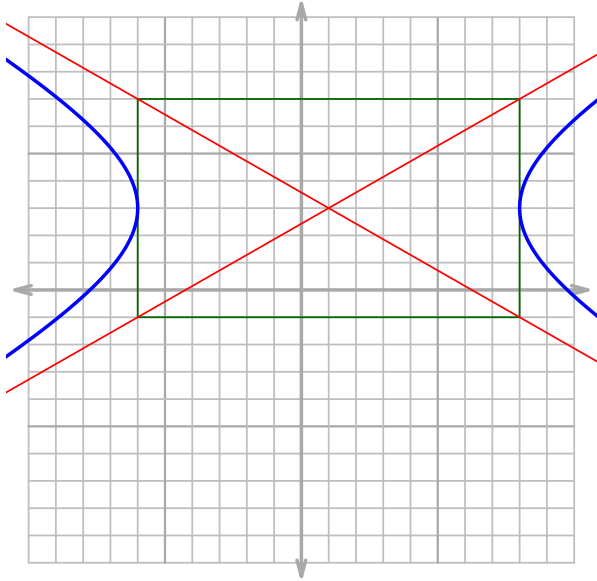
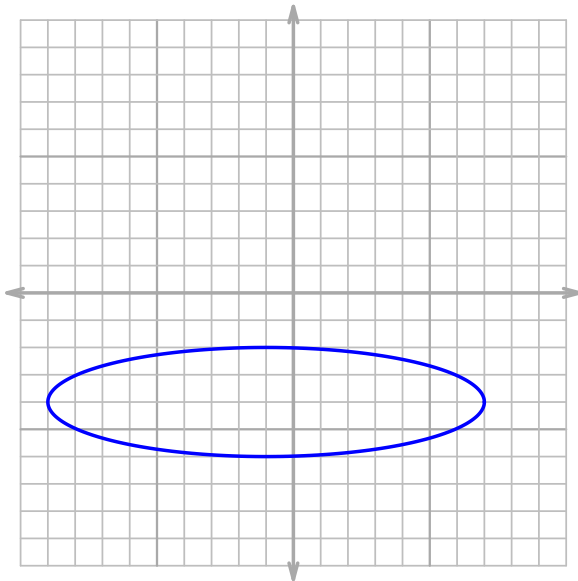


Question 1

Please write the equation of the conic section graphed below. You can assume all vertices and co-vertices are on integer gridpoints.

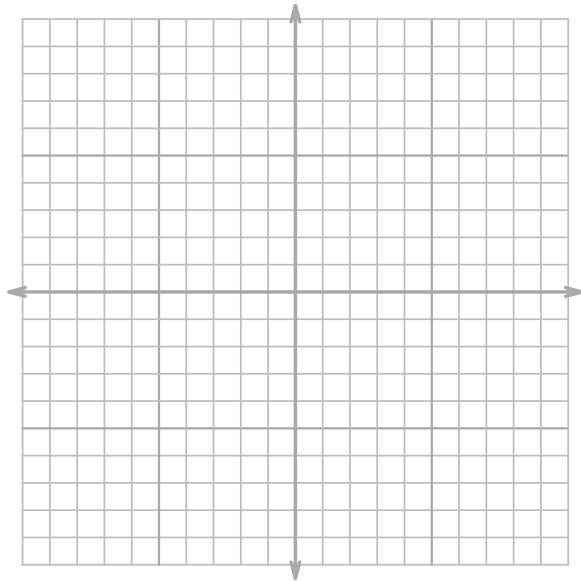
**Question 2**

Please write the equation of the conic section graphed below. You can assume all vertices and co-vertices are on integer gridpoints.



Question 3

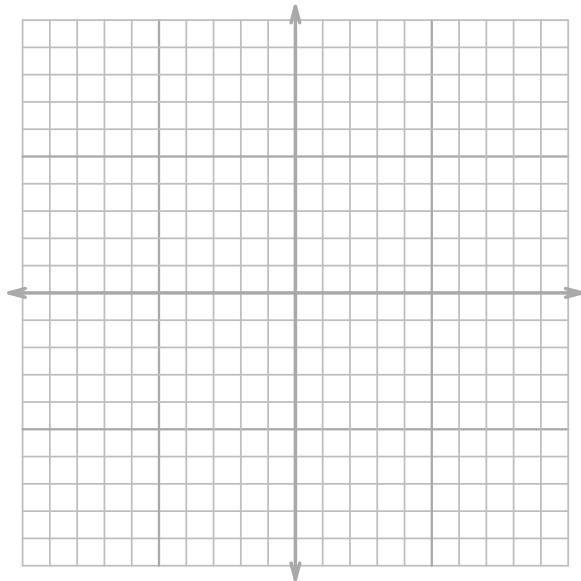
Graph the conic section represented by the equation. For a hyperbola, please include the central rectangle and the asymptotes.



$$\frac{(x+1)^2}{49} - \frac{(y-3)^2}{4} = 1$$

Question 4

Graph the conic section represented by the equation. For a hyperbola, please include the central rectangle and the asymptotes.



$$\frac{(x-3)^2}{16} + \frac{(y+1)^2}{25} = 1$$